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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,169	03/31/2004	Peter Hazucha	INTEL-0062	4484

34610 7590 04/22/2005

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EXAMINER

LE, DINH THANH

ART UNIT	PAPER NUMBER
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2816

DATE MAILED: 04/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/813,169	XU ET AL	
	Examiner	Art Unit	
	DINH T. LE	2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/31/04</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Specification

The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections

Claim Rejections - 35 USC § 112

Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction or clarification is required.

In claim 1, it is unclear where the "current" on line 7 come from and how the recitation "the band-pass filter including an operational" and a "comparator portion" is read on the preferred embodiment. Insofar as understood, no such limitation is seen on the drawings. The description of the present invention is incomplete because the current portion is not connected to anything. Thus, the claimed current dissipation portion may not perform the recited function. The same is true for claims 11 and 22-12

In claim 3, it is unclear where the "power grid" comes from.

In claim 4, it is not understood what the "tolerant to process variations" are.

In claim 8, it is unclear where the first and second resistors and the first and second capacitors come from. The same is true for claim 19.

In claim 9, the recitation “the first resistor”, “the second resistor”, the first capacitor” and “the second capacitor” lacks antecedent basis. It is unclear where they come from and if these are additional “resistor” and “capacitor” or further recitation of the previously claimed “resistor” and “capacitor” in claim 7 and. The same is true for claim 20.

In claim 10, it is not understood how the filter can be “provided” without matching requirements of capacitors and resistors” and where the resistors and capacitors come from. The same is true for claim 18.

In claim 14, the recitation “power grid” is confusing because it is unclear if this is an additional “power grid” or further recitation of the previously claimed “power grid” in claim 11.

The remaining claims are dependent from the above claims and therefore also considered indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-24 are rejected under 35 USC 102 (b) as being anticipated by Huang et al (US2004/0124715) in view of Sakai et al (US 4,961,643).

Huang et al discloses in Figures 2-13 a circuit comprising:

- a power grid (VCC) to distribute a voltage, see Figure 13;
- a band-pass filter portion (360) to pass signals;

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- a comparator portion (210) coupled to the band-pass filter portion (360) for sensing the voltage fluctuation at approximately resonance frequency;
- an amplification portion (330) coupled between the comparator portion (210) and a current dissipation portion having a MOS transistor (220) which changes a frequency of current.

However, Huang et al does not disclose that the band-pass filter comprising an operational amplifier. Sakai et al teaches in Figures 3 and 4b an active band pass filter circuit (29) including an operational amplifier (60) having a capacitor (64) and a resistor (62) coupled in parallel with the amplifier (60) and a series connected capacitor (61) and a resistor (63) coupled to the input of the amplifier (60) for providing an active gain. It would have been obvious to a person having skill in the art at the time the invention was made to employ the active band pass filter circuit taught by Sakai et al in the circuit of Huang et al for the purpose of providing active gain.

With regard to claims 2-3 and 12-14, the amplification portion (330) to receive a trigger signal from the comparator portion (210) and to delay turning ON the current dissipation portion (220) and the comparator portion (210) and the amplification portion (330) operate such that the current dissipation portion (220) is OFF when there is substantially no noise on the power grid (Vcc).

With regard to claims 8 and 19, the gain of the band-pass filter portion is based on a ratio of impedance of a first resistor (62) and a first capacitor (64) and an impedance of a second resistor (63) and a second capacitor (61) as shown on Figure 4b of Sakai et al.

With regard to claim 24, the capacitor (61) and the resistor (63) coupled in series with the input of the inverter (65).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY CALLAHAN can be reached at (571) 272-1740.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


DINH T. LE
PRIMARY EXAMINER